



PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/776,874
				Filing Date	February 6, 2001
				First Named Inventor	Iris PECKER et al
				Art Unit	1652
				Examiner Name	HUTSON, RICHARD G
Sheet	1	of	33	Attorney Docket Number	01/21603
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-2001/0006630	05-Jul-2001	Yacobi-Zeevi et al.	
	2	US-2002/0068061	06-Jun-2002	Peretz et al.	
	3	US-2002/0088019	04-Jul-2002	Yacoby-Zeevi	
	4	US-2002/0102560	01-Aug-2002	Pecker et al.	
	5	US-2002/0114801	22-Aug-2002	Pecker et al.	
	6	US-2002/0168749	14-Nov-2002	Pecker et al.	
	7	US-2002/0194625	19-Dec-2002	Zcharia et al.	
	8	US-2003/0031660	13-Feb-2003	Yacobi-Zeevi et al.	
	9	US-2003/0068806	10-Apr-2003	Ayal-Hershkovitz et al.	
	10	US-2003/0161823	28-Aug-2003	Ilan et al.	
	11	US-2003/0163836	28-Aug-2003	Garofalo et al.	
	12	US-2003/0170860	11-Sep-2003	Pecker et al.	
	13	US-2003/0181687	25-Sep-2003	Peretz et al.	
	14	US-2003/0190737	09-Oct-2003	Pecker et al.	
	15	US-2003/0217375	20-Nov-2003	Zcharia et al.	
	16	US-2004/0063135	01-Apr-2004	Pecker et al.	
	17	US-2004/0142427	22-Jul-2004	Pecker et al.	
	18	US-2004/0146497	29-Jul-2004	Ilan et al.	
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	20	US-2004/0213789	28-Oct-2004	Yacobi-Zeevi et al.	
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	22	US-2006/0008892	12-Jan-2006	Yacobi-Zeevi et al.	
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	26	US-4,455,296	19-Jun-1984	Hansen et al.	
	27	US-4,683,195	28-Jul-1987	Mullis et al.	
	28	US-4,859,581	22-Aug-1989	Nicholson et al.	
	29	US-4,882,318	21-Nov-1989	Vlodavsky et al.	
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(06/11/2008)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.H./ (06/11/2008)

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	30	US-4,937,747	26-Jun-1990	Koller	
	31	US-4,946,778	08-Aug-1990	Ladner et al.	
	32	US-5,129,877	14-Jul-1992	Gallo et al.	
	33	US-5,145,679	08-Sep-1992	Hinson	
	34	US-5,194,596	16-Mar-1993	Tischer et al.	
	35	US-5,206,223	27-Apr-1993	Vlodavsky et al	
	36	US-5,332,812	26-Jul-1994	Nicolson et al.	
	37	US-5,350,836	27-Sep-1994	Kopchick et al.	
	38	US-5,360,735	01-Nov-1994	Weinshank et al.	
	39	US-5,399,351	21-Mar-1995	Leshchiner et al	
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	47	US-5,656,595	12-Aug-1997	Schweighoffer et al.	
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	49	US-5,688,679	18-Nov-1997	Powell	
	50	US-5,700,671	23-Dec-1997	Prieto et al.	
	51	US-5,714,345	03-Feb-1998	Clark	
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	53	US-5,736,137	07-Apr-1998	Anderson et al.	
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	57	US-5,830,759	03-Nov-1998	Chang et al.	
	58	US-5,859,660	12-Jan-1999	Perkins et al.	
	59	US-5,859,929	12-Jan-1999	Zhou et al.	
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	60	US-5,917,830	29-Jun-1999	Chen et al.	
	61	US-5,962,321	05-Oct-1999	Gough et al.	
	62	US-5,968,822	19-Oct-1999	Pecker et al.	
	63	US-5,997,863	07-Dec-1999	Zimmermann et al.	
	64	US-6,020,931	01-Feb-2000	Bilbrey et al.	
	65	US-6,140,552	31-Oct-2000	Deboer et al.	
	66	US-6,153,187	28-Nov-2000	Yacoby-Zeevi	
	67	US-6,177,545	13-Jan-2001	Pecker et al.	
	68	US-6,190,875	20-Feb-2001	Ben-Artzi et al.	
	69	US-6,226,792	01-May-2001	Goiffon et al.	
	70	US-6,230,151	08-May-2001	Agrawal et al.	
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	72	US-6,307,965	23-Oct-2001	Aggarwal et al.	
	73	US-6,314,420	06-Nov-2001	Lang et al.	
	74	US-6,348,344	19-Feb-2002	Ayal-HersHKovitz et al.	
	75	US-6,387,643	14-May-2002	Heinrikson et al.	
	76	US-6,423,312	23-Jul-2002	Yacoby-Zeevi	
	77	US-6,426,209	30-Jul-2002	Ayal-HersHKovitz et al.	
	78	US-6,475,763	05-Nov-2002	Ayal-HersHKovitz et al.	
	79	US-6,531,129	11-Mar-2003	Pecker et al.	
	80	US-6,562,950	13-May-2003	Peretz et al.	
	81	US-6,664,105	16-Dec-2003	Pecker et al.	
	82	US-6,699,672	02-Mar-2004	Pecker et al.	
	83	US-6,790,658	14-Sep-2004	Pecker et al.	
	84	US-6,798,658	28-Sep-2004	Takedomi et al.	
	85	US-6,800,441	05-Oct-2004	Pecker et al.	
	86	US-6,946,131	20-Sep-2005	Peretz et al.	
	87	US-6,960,471	01-Nov-2005	Pecker et al.	
	88	US-6,986,996	17-Jan-2006	Pecker et al.	
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FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	89	EP 0254067	27-Jan-1988	Cohen et al.		
	90	EP 0998569	10-May-2000	Pecker et al.		
	91	IL 133264	30-Apr-2001	Pecker et al.		
	92	AU 735116	28-Jun-2001	Pecker et al.		
	93	AU 768820	08-Jan-2004	Ben-Artzi et al.		
	94	PCT WO 00/03036	20-Jan-2000	Ben-Artzi et al.		
	95	PCT WO 00/25817	11-May-2000	Peretz et al.		
	96	PCT WO 00/52149	08-Sep-2000	Yacobi-Zeevi		
	97	PCT WO 00/52178	08-Sep-2000	Pecker et al.		
	98	PCT WO 01/00643	04-Jan-2001	Pecker et al.		
	99	PCT WO 02/19962	14-Mar-2002	Ilan et al.		
	100	PCT WO 02/32283	25-Apr-2002	Yacoby-Zeevi		
	101	PCT WO 03/006645	23-Jan-2003	Bohlen et al.		
	102	PCT WO 2004/108065	16-Dec-2004	Yacobi-Zeevi et al.		
	103	PCT WO 88/01280	25-Feb-1988	Nicolson et al.		
	104	PCT WO 91/02977	07-Mar-1991	Fuks et al.		
	105	PCT WO 91/19197	12-Dec-1991	Nicolson et al.		
	106	PCT WO 92/01003	23-Jan-1992	Nicolson et al.		
	107	PCT WO 95/04518	16-Feb-1995	Midha et al.		
	108	PCT WO 97/11684	03-Apr-1997	Bennett et al.		
	109	PCT WO 97/27327	31-Jul-1997	Van Ness et al.		
	110	PCT WO 98/03638	29-Jan-1998	Freeman et al.		
	111	PCT WO 98/46258	22-Oct-1998	Bhaskar et al.		
	112	PCT WO 99/11798	11-Mar-1999	Pecker et al.		
	113	PCT WO 99/18852	22-Apr-1999	Arenson		
	114	PCT WO 99/21975	06-May-1999	Freeman et al.		
	115	PCT WO 99/40207	12-Aug-1999	Nakajima et al.		
	116	PCT WO 99/48478	30-Sep-1999	Yacoby-Zeevi		
	117	PCT WO 99/57153	11-Nov-1999	Pecker et al.		
	118	PCT WO 99/57244	11-Nov-1999	Ben-Artzi et al.		
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	119	Abaza et al. "Effects of Amino Acid Substitutions Outside An Antigenic Site on Protein Binding to Monoclonal Antibodies of Predetermined Specificity Obtained by Peptide Immunization: Demonstration With Region 94-100 (Antigenic Site 3) of Myoglobin", Journal of Protein Chemistry, 11(5): 433-444, 1992.			
	120	Abrahamsohn et al. "Implantation and Decidualization in Rodents", J. Exp. Zool., 266(6): 603-628, 1993. Abstract.			
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	126	Allison et al. "Polysaccharide Production in Pseudomonas Cepacia", J. Basic. Microbiol., 34(1): 3-10, 1994. Abstract.			
	127	Alvarez-Dominguez et al. "Host Cell Heparian Sulfate Proteoglycans Mediate Attachment and Entry of Listeria Monocytogenes, and the Listerial Surface Protein ActA Is Involved in Heparan Sulfate Receptor Recognition", Infection & Immun., 65(1): 78-88, 1997. Abstract.			
	128	Anatolii "Hyaluronic Capsule as One of the Factors of Hemolytic Streptococcus Pathogenicity", Chem. Abstracts 86(17): 339, 1977. Abstr.118714 in Zh. Mikrobiol. Epidemiol. Immunobiol., 2: 22-27, 1977.			
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	131	Armstrong et al. "Lower Airway Inflammation in Infants and Young Children With Cystic Fibrosis", Am. J. Respir. Crit. Care Med., 156(4 Pt.1): 1197-1204, 1997. Abstract.			
	132	Asagoe et al. "Effect of Heparin on Infection of Cells by Equine Arteritis Virus", J. Vet. Med. Sci., 59(8): 727-728, 1997. Abstract.			
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	133	Aspenberg et al. "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", Acta Orthop. Scand., 62(5): 481-484, 1991. Abstract.			
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				Art Unit	1652
				Examiner Name	HUTSON, RICHARD G
Sheet	7	Of	33	Attorney Docket Number	01/21603
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	144	Benezra et al. "Antiproliferative Activity to Vascular Smooth Muscle Cells and Receptor Binding of Heparin-Mimicking Polyaromatic Anionic Compounds", Arteriosclerosis and Thrombosis, 14(12): 1992-1999, 1993.			
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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				First Named Inventor	Iris PECKER et al
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		Filing Date	February 6, 2001		
		First Named Inventor	Iris PECKER et al		
		Art Unit	1652		
Examiner Name	HUTSON, RICHARD G				
Sheet	18	Of	33	Attorney Docket Number	01/21603
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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	293	Li et al. "Immunochemical Localization of Heparanase in Mouse and Human Melanomas", Int. J. Cancer, 45: 1088-1095, 1990.			
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	306	Marty et al. "Influence of Nutrient Media on the Chemical Composition of the Exopolysaccharide From Mucoïd and Non-Mucoïd Pseudomonas Aeruginosa", FEMS Microbiol. Letters, 77(1-3): 35-44, 1992. Abstract.			
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				Examiner Name	HUTSON, RICHARD G
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	319	Miyake et al. "Highly Specific and Sensitive Detection of Malignancy in Urine Samples From Patients With Urothelial Cancer by CD44v8-10/CD44v10 Competitive RT-PCR", Int. J. Cancer, 79(6): 560-564, 1998. Abstract.			
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	332	Nadav et al. "Activation, Processing and Trafficking of Extracellular Heparanase by Primary Human Fibroblasts", Journal of Cell Science, 115(10): 2179-2187, 2002.			
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				Filing Date	February 6, 2001
				First Named Inventor	Iris PECKER et al
				Art Unit	1652
				Examiner Name	HUTSON, RICHARD G
Sheet	24	Of	33	Attorney Docket Number	01/21603
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	371	Ruppert et al. "Human Bone Morphogenic Protein 2 Contains A Heparin-Binding Site Which Modifies Its Biological Activity", Eur. J. Biochem., 237(1): 295-302, 1996. Abstract.			
	372	Sasisekharan et al. "Cloning and Expression of Heparinase I Gene From Flavobacterium Heparinum", Proc. Natl. Acad. Sci. USA, 90: 3660-3664, 1993.			
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	383	Shastry "Gene Disruption in Mice: Models of Development and Disease", Molecular and Cellular Biochemistry, 181: 163-179, 1998.			
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		Filing Date	February 6, 2001
		First Named Inventor	Iris PECKER et al
		Art Unit	1652
		Examiner Name	HUTSON, RICHARD G
Sheet	31	Of	33
		Attorney Docket Number	01/21603
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	447	Goshen et al. "Purification and Characterization of Placental Heparanase and Its Expression by Cultured Cytotrophoblasts", Molecular Human Reproduction, 2(9): 679-684, 1996.	
	448	Bar-Ner et al. "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparan Sulphate by Non-Anticoagulant Heparin Species", Blood, 70(2): 551-557, 1987.	
	449	Bashkin et al. "Basic Fibroblast Growth Factor Binds to Subendothelial ExtraCellular Matrix and Is Released by Heparitanase and Heparin-Like Molecules", Biochemistry, 28: 1737-1743, 1989.	
	450	Burgess et al. "The Heparin-Binding (Fibroblast) Growth Factor of Proteins", Annu. Rev. Biochem., 58: 575-606, 1989.	
	451	Chen et al. "Dengue Virus Infectivity Depends on Envelope Protein Bin to Target Cell Heparan Sulfate", Nature Medicine, 3(8): 866-871, 1997.	
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	459	Lider et al. "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals With Low Doses of Heparin", The Journal of Clinical Investigation, 83: 752-756, 1989.	
Examiner Signature	/Richard Hutson/ (06/11/2008)		Date Considered

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		First Named Inventor	Iris PECKER et al	
		Art Unit	1652	
		Examiner Name	HUTSON, RICHARD G	
Sheet	32	Of	33	
Attorney Docket Number				01/21603
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	460	Ornitz et al. "FGF Binding and FGF Receptor Activation by Synthetic Heparin-Derived Di- and Trisaccharides", Science, 268: 432-436, 1995.		
	461	Spivak-Kroizman et al. "Heparin-Induced Oligomerization of FGF Molecules Is Responsible For FGF Receptor Dimerization, Activation, and Cell Proliferation", Cell, 79: 1015-1024, 1994.		
	462	Yayon et al. "Cell Surface, Heparin-Like Molecules Are Required for Binding of Basic Fibroblast Growth Factor to Its High Affinity Receptor", Cell, 64: 841-848, 1991.		
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	473	Folkman et al. "A Heparin-Binding Angiogenic Protein - Basic Fibroblast Growth Factor - Is Stored Within Basement Membrane", Am. J. Pathology, 130(2): 393-400, 1988.			
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	485	Wight et al. "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", Current Opinion in Cell Biology, 4: 793-801, 1992.			

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